



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N Bramblewood
 Wichita Ks. 67206+1094
 ATTN: Bryan Bynog

30-14s-14w Russell
Hummel #5
 Job Ticket: 45693 **DST#: 3**
 Test Start: 2012.02.18 @ 13:03:05

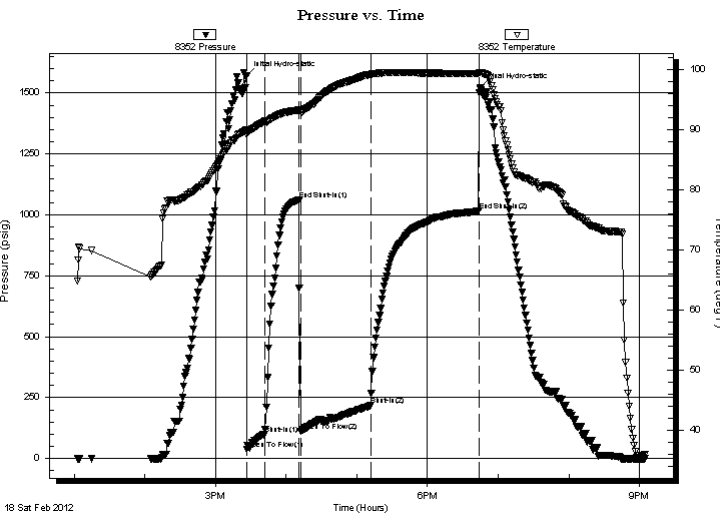
GENERAL INFORMATION:

Formation: **LKC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:26:40
 Time Test Ended: 21:04:29
 Interval: **3108.00 ft (KB) To 3155.00 ft (KB) (TVD)**
 Total Depth: 3155.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1790.00 ft (KB)
 1779.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 218.39 psig @ 3115.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.18 End Date: 2012.02.18 Last Calib.: 2012.02.18
 Start Time: 13:03:05 End Time: 21:04:29 Time On Btm: 2012.02.18 @ 15:26:20
 Time Off Btm: 2012.02.18 @ 18:44:50

TEST COMMENT: IF:(15min) BOB, 1 min.
 IS:(30min) Return Blow, Built to 4 inches, Died in 18 min.
 FF:(60min) BOB, 1 min. Gas to surface in 43 min. TSTM
 FS:(90min) Return Blow, Built to 5 inches, Decreased to 1 inch.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.75	89.90	Initial Hydro-static
1	38.86	89.10	Open To Flow (1)
16	100.90	91.34	Shut-In(1)
45	1062.34	93.24	End Shut-In(1)
46	110.56	92.94	Open To Flow (2)
106	218.39	99.14	Shut-In(2)
197	1015.88	99.36	End Shut-In(2)
199	1523.72	99.46	Final Hydro-static

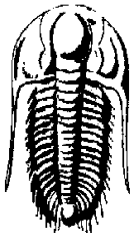
Recovery

Length (ft)	Description	Volume (bbl)
120.00	HOCGM g=20% o=25% m=55%	0.59
480.00	CGO g=10% o=90%	2.94

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Hummel #5

Job Ticket: 45693

DST#: 3

ATTN: Bryan Bynog

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Deviated: No Whipstock: ft (KB)

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Time Test Ended: 21:04:29

Interval: 3108.00 ft (KB) To 3155.00 ft (KB) (TVD)

Total Depth: 3155.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Reference Elevations: 1790.00 ft (KB)

1779.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8017

Inside

Press@RunDepth: psig @ 3115.00 ft (KB)

Start Date: 2012.02.18

End Date: 2012.02.18

Start Time: 13:03:05

End Time: 21:04:29

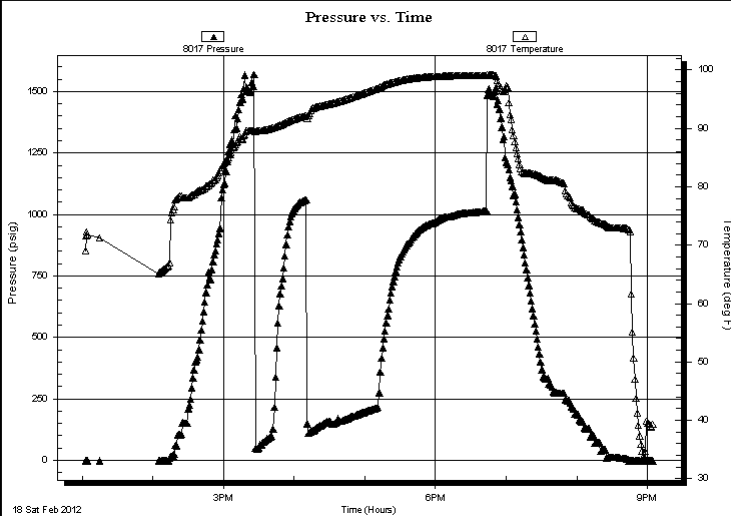
Capacity: 8000.00 psig

Last Calib.: 2012.02.18

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:(15min) BOB, 1 min.
ISl:(30min) Return Blow , Built to 4 inches, Died in 18 min.
FF:(60min) BOB, 1 min. Gas to surface in 43 min. TSTM
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
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* Recovery from multiple tests



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FLUID SUMMARY

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30-14s-14w Russell

2020 N Bramblewood
Wichita Ks. 67206+1094

Hummel #5

Job Ticket: 45693

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.02.18 @ 13:03:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	HOCGM g=20% o=25% m=55%	0.590
480.00	CGO g=10% o=90%	2.944

Total Length: 600.00 ft Total Volume: 3.534 bbl

Num Fluid Samples: 0

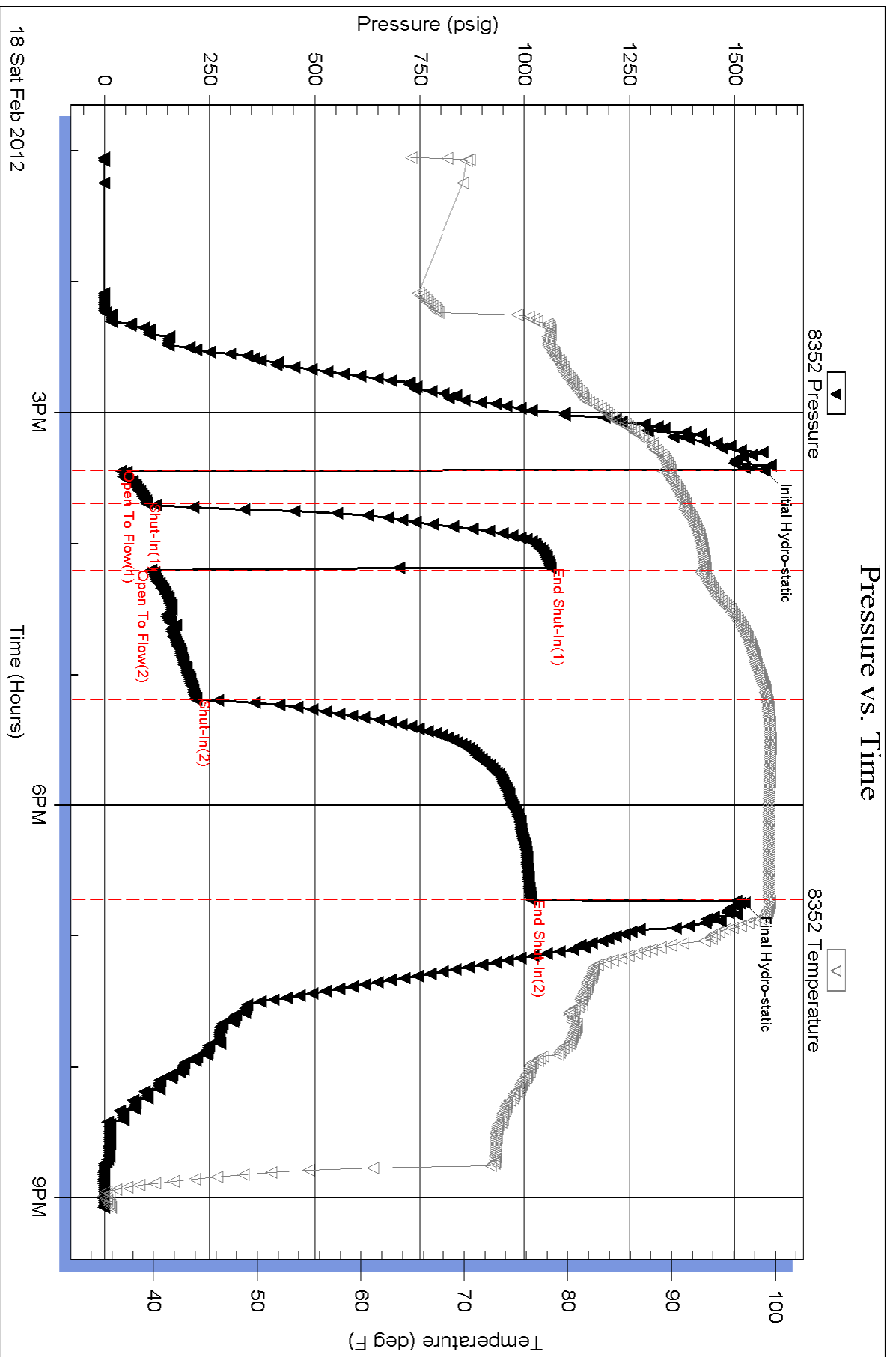
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



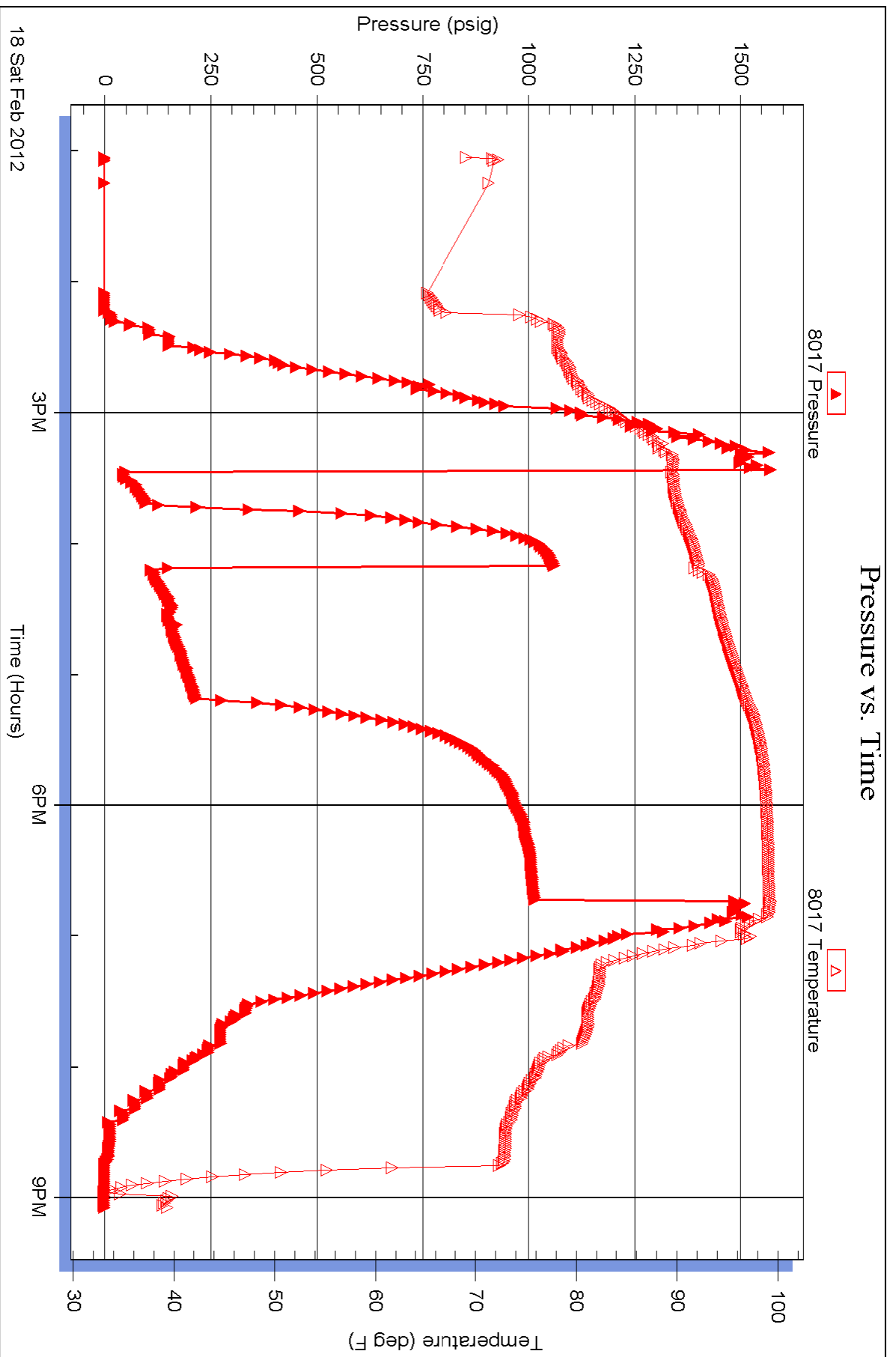
Serial #: 8017

Inside

Berexco LLC

Hummel #5

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45693

Printed: 2012.02.18 @ 22:42:25